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PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : DUNLING, Li  
Appl. No. : 09/920,710 Examiner: To Be Assigned  
Filing Date: August 3, 2001 Art Unit: 2641  
Title : BACKGROUND NOISE ESTIMATION METHOD FOR AN  
IMPROVED G.729 ANNEX B COMPLIANT VOICE ACTIVITY  
DETECTION CIRCUIT

Attorney Docket No.: TI-33330 (1.109US)

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INFORMATION DISCLOSURE STATEMENT

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Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on the accompanying Form PTO-1449 are documents that may be considered material to the examination of this application and are submitted in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98. Copies of these documents are provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue.

The applicant reserves the right to establish the patentability of the claimed invention over any of the information provided by this statement, to prove that the enclosed information is not prior art, and/or to prove that this information is not enabling for the teachings purportedly offered.

## Page 2

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*for* Paul J. Lati\* Reg. No. 30,754  
Warren Franz  
Registration No. 28,716

Texas Instruments Incorporated  
P.O. Box 655474  
MS 3999  
Dallas, Texas 75265  
  
(972) 917-5271



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	APPLICANT DUNLING	
	FILING DATE Aug. 3, 2001	GROUP To Be Assigned JAN 11 2002

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AF1						
	AJ1						
	AK1						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	A01						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	1	Johan Haeggstrom, Nokia Telecommunications, IP Telephony, Oct. 26, 1998, pages 1 - 46.	
AS	1	Rosenberg, G.729 Error Recovery for Internet Telephony, Lucent Technologies, Bell Laboratories & Columbia University, pages 1 - 25.	
		Koehler, Physics of Hearing, 1996, pages 1 - 3.	
		Prolog to Speech Coding: A Tutorial Review, by Spanias, pages 1 - 8.	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1						
	AF1						
	AJ1						
	AK1						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	A01						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	1	Srinivasan et al., High-Quality Audio Compression Using an Adaptive Wavelet Packet Decomposition and Psychoacoustic Modeling, Transactions on Signal Processing, Vol. 46, No. 4, April 1998, pages 1085 - 1093.	
AS	1	Baumgarte, Evaluation of a Physiological Ear Model Considering Masking Effects Relevant to Audio Coding, Institut fur Theoretische Nachrichtentechnik und Informationsverarbeitung, pages 1 - 27.	
		Azirani et al., Optimizing Speech Enhancement by Exploiting Masking Properties of the Human Ear, Laboratoire de Traitement du Signal et de l'Image, pages 800 - 803.	
		Baumgarte, A Physiological Ear Model for Auditory Masking Applicable to Perceptual Coding, Institut fur Theoretische Nachrichtentechnik und Informationsverarbeitung, Abstract, pages 1-15; Chapter 2, pages 5-39; Chapter 3, pages 40-64.	
		Baumgarte, Evaluation of a Physiological Ear Model for the Simulation of Nonlinear Masking Effects, Universitat Hannover, Hannover, Germany, pages 1-4.	

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	AA1						
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## FOREIGN PATENT DOCUMENTS

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	A01						Yes No
	AP1						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Baumgarte, Application of a Physiological Ear Model to Irrelevance Reduction in Audio Coding, Institut fur Theoretische Nachrichtentechnik, pages 1-11.
	AS	1	Baumgarte, A Physiological Ear Model for Auditory Masking Applicable to Perceptual Coding, Institut fur Theoretische Nachrichtentechnik, pages 1-36.
			Hansen, Assessment and Prediction of Speech Trnasmision Quality with an Auditory Processing Model, Vom Fachbereich Physik der Universitat Oldenburg, Abstract pages 1-5; Chapter 1 pages 1-4; Chapter 2 pages 5-39; Chapter 3 pages 40-65; Chapter 4 pages 66-90; Chapter 5 pages 91-94; Appendix A pages 95-101; Appendix B pages 102-104; Appendix C pages 105-111; Appendix D pages 112-113; and Bibliography.

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